

Date: Thu, 7 Jul 94 04:30:20 PDT  
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>  
Errors-To: Ham-Equip-Errors@UCSD.Edu  
Reply-To: Ham-Equip@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Equip Digest V94 #220  
To: Ham-Equip

Ham-Equip Digest                    Thu, 7 Jul 94                    Volume 94 : Issue 220

Today's Topics:

    Anyone experienced with Cushcraft R7?  
    CPU/PROM Chips & Info Needed!  
    Need mixer for HP 8555A 18GHz Spectrum Analyzer plug-in  
    SALE: FT-757 GXII and FT-726R  
    Yaesu FT-707 Power Output...

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>  
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Thu, 7 Jul 1994 07:54:17 GMT  
From: l11-winken.llnl.gov!overload.lbl.gov!dog.ee.lbl.gov!agate!library.ucla.edu!  
csulb.edu!csus.edu!netcom.com!herbr@ames.arpa  
Subject: Anyone experienced with Cushcraft R7?  
To: ham-equip@ucsd.edu

Subject: Anyone experienced with Cushcraft R7?  
Newsgroups: rec.radio.amateur.antenna  
Organization: NETCOM On-line Communication Services (408 261-4700 guest)  
Summary:  
Keywords:

I am in a restricted antenna house, and I am looking for suggestions on a  
antenna for HF. In previous lives, I have tried to use several different  
vertical antennas including Butternut and Hygain, only to be very  
disapointed.

The Cushcraft R7 has caught my eye, and I would appreciate hearing from

anyone with experience with it.

I am also curious about the GAP antenna, and would appreciate any other suggestions for good performing HF antennas in a limited space and restricted environment.

Thanks.

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herbr@netcom.com

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Date: Thu, 7 Jul 1994 01:30:54 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!darwin.sura.net!  
osceola.cs.ucf.edu!fang!gator!sgb!steven@network.ucsd.edu  
Subject: CPU/PROM Chips & Info Needed!  
To: ham-equip@ucsd.edu

I am looking for sources of the CPU and PROM chips for cellular-capable scanners. If anyone knows how they were changed to be no longer easily modifiable -- I'd appreciate some feedback.

It is my opinion that all that changed was the chip(s) used. Since the non-blocked chips are used in the international versions I would imagine they are STILL MANUFACTURED.

Since the dumb, stupid twits in the government made this law, it leaves only two choices:

- [1] Order from overseas and pay the customs duty.
- [2] Order in the chips as spare parts and repair our scanners!

While I am surprised no-one has done it yet, it is NOT against the law to package up the chips, parts, instructions and sell them to radio hobbyists to repair their own scanners to cover the FULL 800 mhz band. I mean Radio Shack could bag these as kits of parts and resell them!

Why is this not occurring? Are we lacking interested hobbyists?

The law does NOT prohibit ANY of the following:

- [1] Manufacturers selling the individual chips and instructions to restore the omitted frequency ranges. They could say the ranges were omitted in order to obtain FCC certification.
- [2] Raw materials such as chips, semiconductors, and even

subassemblies (which are NOT restricted by the FCC or any other government agency). This is why the Opto-456 can permit a non-modifiable Pro 2006 scanner to receive cellular.

- [3] Manufacture of kits (see above) for users to assemble. Keep in mind that users do NOT need FCC certification and are not considered manufacturers if they are not made for purpose of resale.
- [4] Servicing a scanner and or making modifications to a prior owned scanner under a contract for certain work to be performed such as adding cellular via replacement of chips is also NOT illegal since the scanner was previously manufactured or imported as an approved product. Admittedly, the changes would cause it to lose that certification, meaning you could not legally resell the modified version, but the law does NOT prevent you from owning or using a none certified scanner. The fact that it becomes no longer certified thus becomes insignificant now.

I am posting this message to alt.radio.scanner, rec.radio.scanner, and also alt.2600 because the folks in alt.2600 seem to always have the information first, for example with cantor and seigel, they had the scoop on name, address, phone numbers, network data, right down to the fact they had a nice pool to be nicely attacked with all sorts of "vandalism" (since they had already electronically vandalised the network with advertising, it's an appropriate recourse). Another example, cellular phones, this is where you can find out how to alter them, change them, reprogram them, and yes, use them as cellular RECEIVERS (anyone listening out in bonehead government-land??? We need to BAN CELLULAR PHONES!!!)

Anyhow, this is an open solicitation for ALL available information on names, addresses, phone numbers, of where spare parts for the various popular scanners can be obtained, bought, etc, and if anyone knows what the changes are in the newer not easily altered units? I suspect just a change in the chip used.

I figure if I can't extract the info from the rec.radio.scanner section, perhaps one of the electronic hackers in the alt.2600 forum will have done this already.

Back when it was add the resistor, move the diode, remove the diode, change the diode, the modifications were out within DAYS of the units being available.

Now all the geniuses who provided this information seem to have simply given up or quit. I really do not get it. I'd imagine it would be a bigger challenge now than before. I'd also imagine the radio amateurs who are known for their homemade equipment and mods would not have wasted any time in determining what changes would be needed.

This does not appear to have happened yet. I do not understand why.

I do not buy the brainwashing that "it can not be done". Just because the federal government bought the story from the manufacturers does not make it so. A company COULD go into business restoring the cellular by replacing the chips. The law would not prevent that from being done. The scanners met the letter of the law by not being easily modifiable. So, maybe they are hard to modify. I still do not see why everyone has given up.

I'll admit its easier to dump the U.S. sales of scanners and buy from overseas, but I do not see why no-one has investigated what it takes to fix these broken scanners that are missing two slices in the 800 mhz band.

It is not against the law to sell the parts or modify a previously owned unit (you are not manufacturing it, as it was already manufactured, you are not importing it either, you are professionally modifying it for cellular as a contract service being performed).

Anyone have any answers? I would appreciate any information, addresses, names, phone numbers, tips, prices, part numbers for what needs to be replaced in these broken scanners (such as the Pro-43 As!) Also I am still working on the directory of international dealers. If you wish to pass along information on them as well (name, address, phone numbers, fax and voice if possible, charge cards accepted), I'd appreciate it.

Please e-mail this information to the account:

scaninfo@sgb.oau.org

I have had it created for the purpose of data collection.

I will share the results with everyone when I have them compiled. Please do not think because "someone else" will pass the info along, you do not have to. I do not mind duplicate information... I'd appreciate everyone's help. If we work together, we can have even the latest FCC approved non-modifiable scanners receiving cellular in every hobbiest's hand!

All constructive comments would be appreciated.

Thank you for your assistance,

Steven

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Internet:	steven@sgb.oau.org steven@gate.net steven@transquest.oe.fau.edu	Steven G. Bradley   Forest City, Florida  ----- CompuServe: 73232.505@compuserve.com   Phone: 407/862-7226
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America Online: sgbraley@aol.com

| Modem: 407/862-8088

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Date: 7 Jul 1994 06:36:22 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!mozart.amil.jhu.edu!  
ishtar.med.jhu.edu!roberts@network.ucsd.edu  
Subject: Need mixer for HP 8555A 18GHz Spectrum Analyzer plug-in  
To: ham-equip@ucsd.edu

I picked up an HP 8555A 0.01-40GHz Spectrum Analyzer plug in at a hamfest in "as is" condition. It turns out that the input mixer is most likely damaged. The thing still works, but signals are about 30dB or so down. The mixer is a module inside the plug-in. Its part number is 5086-7177. It's a smallish rectangular metal box, about the size of a match box. It has several coaxial connectors (input, ext. mixer, IF out, LO in, LO out, ext. IF) and several pin connectors (ext. bias, diode bias, emitter bias, +10 Volts). It is a Hewlett Packard part.

If anyone knows of a source for these (working ones!!) or an updated replacement part, please drop me a line.

Thanks for your time,  
dale

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Date: Thu, 7 Jul 1994 04:33:35 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!  
alyssa@network.ucsd.edu  
Subject: SALE: FT-757 GXII and FT-726R  
To: ham-equip@ucsd.edu

Hello....

I'm not too sure if this is the appropriate place to post this ad; but if not, please accept my sincere apology and simply delete it.

I have two ham radios originally purchased from Henry Radio (in Los Angeles) several years ago. Since then, I have come to the realization that I simply don't have time in my personal life to pursue amateur radio. Consequently, I would like to sell these radios to someone can use them.

First, is my Yaesu FT-757 GXII w/matching FT-757HD

power supply. It is almost six years old BUT is still in the original box, including all technical manuals and purchase receipts. It has NEVER seen any use except to be unbox-ed every few months and powered-up for a few hours. For those who have seen one, they're really compact and quite suitable for mobile or emergency use.

Second, is also a Yaesu. It is my FT-726R. It too, is still in it's original box with all technical manuals and purchase receipts. However, unlike the 757, it has seen some use. I used it for Red Cross communications (last January) in support of the Los Angeles Earthquake relief effort. It has the 144 MH module along with the tone module.

(The last is my personal FT-727, but I'm simply too much in love with it, fitting neatly into my glove compartment or briefcase).

Should you have any interest in either of these two radios, please E-mail. Please understand - I'm not trying to get rich from selling these radios, but on the other hand, I not Ms. Santa Claus either (besides it July 4th!) - let's agree on a price that makes us both 'winners'.

The original price for the 757 was about \$825 and an additional \$200 for the power supply and about \$1,000 for the 726. But any reasonable offer will be very seriously considered.....

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----- ALYSA JEAN (alysa@netcom.com) -----  
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("Live every day as if it were your last...  
..'cause one of these days you'll be right!" -Benny Hill-)  
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Date: 7 Jul 1994 06:03:18 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.umbc.edu!  
haven.umd.edu!cville-srv.wam.umd.edu!ham@network.ucsd.edu

Subject: Yaesu FT-707 Power Output...  
To: ham-equip@ucsd.edu

I have been playing with a Yaesu FT-707 complete system, with the CW filter installed. Everything works fine, but:

When you set a power output level with the CW wide (standard IF filter) setting, you get a certain power output. Change to narrow, and you get roughly half the power you were getting before!

It can be adjusted, but why? I've traced it so far as to knowing that the xmit signal is the same until the point at which the IF filter is reached, and coming out of the filter section the signals differ. Granted, a narrower BW filter could conceivably clip some of the signal, but it's a 500 Hz filter, so i wouldn't expect any of this to be happening.

Just an annoyance, the radio works fine otherwise. Anyonw have similar experiences or is able to tell me why? A mere readjustment of the PO on the front panel sets the power level again, but why should power be twice on CW wide than it is on CW narrow? It's the filter circuit, but WHY? Why even use the IF filters?

Scott NF3I

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73, ----- The  
----- \ / Long Original  
Scott Rosenfeld Amateur Radio NF3I Burtonsville, MD | Live \$5.00  
WAC-CW/SSB WAS DXCC - 125 QSLed on dipoles -----| Dipoles! Antenna!  
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End of Ham-Equip Digest V94 #220

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